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Algebra II Delta & Eta

Creating Exponential Functions from Ordered Pairs  
More Challenging  
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Name:

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Solutions

Directions: Use the table of ordered pairs, to determine an equation for the exponential function.

1.  $f(x) = a(b)^x$

x	$f(x)$
0	
1	6
2	
3	
4	162

$$f(x) = 2(3)^x$$

2.  $g(x) = a(b)^x$

x	$g(x)$
1	2
2	
3	
4	
5	$\frac{1}{8}$

$$g(x) = 4\left(\frac{1}{2}\right)^x$$

3.  $f(x) = a(b)^x$

x	$f(x)$
0	
1	0.5
2	
3	
4	500

$$f(x) = \frac{1}{20}(10)^x$$

4.  $g(x) = a(b)^x$

x	$g(x)$
0	
1	4
2	
3	<del>0.04</del> 0.04
4	

$$g(x) = 40\left(\frac{1}{10}\right)^x$$